

ABSTRACT

Complexed Polypeptide and Adjuvant for Improved Vaccines

Attachment of the strongly immunogenic polypeptide to a more weakly immunogenic polypeptide can precipitate and focus a CpG adjuvant to increase *in vivo* priming of a
5 cytotoxic T-lymphocyte (CTL) response, and thus increase the immunogenicity of the more
weakly immunogenic polypeptide. Accordingly, compositions that include a bipartite
immunogenic polypeptide are provided herein. The bipartite polypeptide can include a CpG-
interacting amino acid sequence fused to a CTL-activating amino acid sequence that can be
heterologous to the CpG-interacting amino acid sequence. Also provided are methods of
10 identifying and using a CpG-interacting amino acid sequence and a bipartite immunogenic
polypeptide.

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